WHAT IS CLAIMED IS:

1	1. At computer system comprising.
2	a computational resource;
3	a storage system; and
4	a communication link connecting said computational resource and said storage
5	system; wherein said computational resource establishes communications with said storage
6	system using said communication link; and
7	wherein said storage system allocates resources to said computational resource
8	based upon a data rate capability of said storage resources and a data rate capability of said
9	communication link.
1	2. The system of claim 1, wherein said computational resource is a host
2	system.
1	3. The system of claim 1, wherein said computational resource is a
2	second storage system.
1	4. The system of claim 1, wherein said storage system allocates storage
2	resources to said computational resource based upon a data rate capability of said storage
3	resources and a data rate capability of said communication link.
1	5. The system of claim 4, wherein said communication link provides a
2	guaranteed quality of service (QoS) communication.
1	6. The system of claim 5, wherein said guaranteed quality of service
2	(QoS) communication comprises a guaranteed data rate; and wherein said storage system
3	allocates storage resources based upon said guaranteed data rate.
1	7. The system of claim 6, wherein said guaranteed quality of service
2	(QoS) communication comprises a guaranteed bandwidth; and wherein said storage system
3	allocates storage resources based upon said guaranteed bandwidth.
1	8. The system of claim 1, wherein said storage system allocates data path
1 2	resources to said computational resource based upon a data rate capability of said storage
	resources and a data rate capability of said communication link.
3	resources and a data rate capability of said confindingation link.

1	9. The system of claim 8, wherein said communication link provides a
2	guaranteed quality of service (QoS) communication.
1	10. The system of claim 9, wherein said guaranteed quality of service
2	(QoS) communication comprises a guaranteed data rate; and wherein said storage system
3	allocates data path resources based upon said guaranteed data rate.
1	11. The system of claim 10, wherein said guaranteed quality of service
2	(QoS) communication comprises a guaranteed bandwidth; and wherein said storage system
3	allocates data path resources based upon said guaranteed bandwidth.
1	12 An apparatus comprising:
2	a processor;
3	a storage; and
4	a network connection, operable to connect said apparatus at a guaranteed
5	quality of service (QoS); and
6	wherein said processor establishes a data path between said storage and said
7	network connection; said data path being assigned a sufficient data speed to accommodate
8	said guaranteed quality of service.
1	13. The apparatus of claim 12, wherein said network connection comprises
2	Asynchronous Transfer Mode (ATM).
1	14. The apparatus of claim 12, wherein said network connection comprises
2	Integrated Services Digital Network (ISDN).
1	15. The apparatus of claim 12, wherein said network connection comprises
2	Digital Subscriber Line network (DSL).
1	16. The apparatus of claim 12, wherein said network connection comprises
2	Resource Reservation Protocol (RSVP).
1	A method for allocating resources in a storage system, said storage
2	system comprising a storage and a network connection, said method comprising:



data rate capability of said network connection.



establishing a data path between said storage and said network connection;
said data path being assigned a sufficient data speed based upon a data capacity of said
storage and a data rate capability of said network connection; and
allocating said storage based upon a data capacity of said storage and a data
rate capability of said network connection.
18. The method of claim 17, wherein said network connection provides a
guaranteed quality of service (QoS) communication, wherein establishing said data path
comprises assigning a data path having a sufficient data speed to accommodate said
guaranteed quality of service.
19. The method of claim 17, wherein said network connection provides a
guaranteed quality of service (QoS) communication, wherein allocating storage comprises
allocating storage having a sufficient data capacity to accommodate said guaranteed data rate.
20 The weethed of claim 17 subarrain said establishing a data math
20. The method of claim 17, wherein said establishing a data path
comprises:
searching for unallocated data communications resources to accommodate a
data capacity of said storage.
21. The method of claim 17, wherein said allocating storage comprises:
searching for unallocated storage having a sufficient data capacity to match a